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experience of the user since a change to user information for one Web site will be made for all affiliated Web sites.

In sum, the principles of the present invention reduce the amount of user input required when navigating through web sites or when changing user information, and optionally preserves the memory capacity of the client. In addition, the present invention provides a unified experience for the user, as far as inputting user information is concerned, when navigating to affiliated Web sites.

The present invention may be embodied in other specific forms without departing from its spirit or essential characteristics. The described embodiments are to be considered in all respects only as illustrative and not restrictive. The scope of the invention is, therefore, indicated by the appended claims rather than by the foregoing description. All changes which come within the meaning and range of equivalency of the claims are to be embraced within their scope.

What is claimed and desired to be secured by United States Letters Patent is:



1  
2 4. A method as recited in Claim 1, wherein generating one or more cookies  
3 associated with the particular web site based on the accessed cookie requirement  
4 information comprises generating one or more cookies associated with the particular web  
5 site based on the accessed cookie requirement information and based on user specific  
6 information.

7  
8 5. A method as recited in Claim 4, further comprising the following:  
9 receiving an indication that a user situation has changed; and  
10 changing the user specific information to reflect the change in the user  
11 situation.

12  
13 6. A method as recited in Claim 1, further comprising storing the one or more  
14 generated cookies so as to be accessible to the server.

15  
16 7. A method as recited in Claim 6, further comprising the following:  
17 receiving a subsequent indication that the client is again accessing the  
18 particular web site; and  
19 transmitting the stored one or more cookies to the client in response to  
20 subsequent indication, rather than regenerating the one or more cookies.

21  
22 8. A method as recited in Claim 1, further comprising the following  
23 receiving a subsequent indication that the client is again accessing the  
24 particular web site;

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regenerating the one or more cookies associated with the particular web site  
based on the accessed cookie requirement information; and  
transmitting the regenerated one or more cookies to the client.

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9. In a server that provides cookies associated with web sites for a client, a method for generating for the client one or more cookies associated with a web site based on requirements defined by the web site such that the web site can generate a web document that has been customized for the client, the method comprising the following:

- using client information to generate one or more cookies tailored to the information required by a particular web site that the client is to access; and
- transmitting the one or more cookies to the client such that the client can transmit the one or more cookies to the web site and such that the web site can thereafter transmit to the client a customized web document that has been generated using the one or more cookies.

10. A method as recited in Claim 9, wherein using client information to generate one or more cookies tailored to the information required by a web site that the client is to access comprises the following:

- transmitting a cookie list to the client, the cookie list including entries associated with web sites, wherein the server is capable of providing cookies associated with said web sites to the client;
- receiving information from the client indicating that the client is accessing the particular web site;
- accessing cookie requirement information specifying the requirements of cookies for the particular web site; and
- generating one or more cookies associated with the particular web site based on the accessed cookie requirement information.

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11. A method as recited in Claim 9, further comprising storing the one or more generated cookies so as to be accessible to the server.

12. A method as recited in Claim 11, further comprising the following:  
receiving a subsequent indication that the client is again accessing the particular web site; and  
transmitting the one or more stored cookies to the client in response to subsequent indication, rather than regenerating the one or more cookies.

13. A method as recited in Claim 9, further comprising the following  
receiving a subsequent indication that the client is again accessing the particular web site;  
regenerating the one or more cookies associated with the particular web site based on the accessed cookie requirement information; and  
transmitting the one or more regenerated cookies to the client.

1           14.    A computer program product for use in a server that is to provide cookies  
2 associated with web sites to a client, the computer program product for implementing a  
3 method for generating for the client one or more cookies associated with a web site based  
4 on requirements defined by the web site such that the web site can generate a web  
5 document that has been customized for the client, the computer program product  
6 comprising a computer-readable medium having stored thereon computer-executable  
7 instructions for implementing the following:

8                   causing a cookie list to be transmitted to the client, the cookie list including  
9 entries associated with web sites, wherein the server is capable of providing  
10 cookies associated with said web sites to the client;

11                   detecting the receipt of information from the client indicating that the client  
12 is accessing a particular one of the web sites;

13                   causing cookie requirement information to be accessed specifying the  
14 requirements of cookies for the particular web site;

15                   generating one or more cookies associated with the particular web site  
16 based on the accessed cookie requirement information; and

17                   causing the one or more cookies to be transmitted to the client such that the  
18 client can transmit the one or more cookies to the web site and such that the web  
19 site can thereafter transmit to the client a customized web document that has been  
20 generated using the one or more cookies.

21  
22           15.    The computer program product as recited in Claim 14, wherein the  
23 computer-readable medium is a physical storage media.  
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causing the one or more stored cookies to be transmitted to the client in response to subsequent indication, rather than regenerating the one or more



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cookies.

20. A computer program product as recited in Claim 14, wherein the computer-readable medium also has stored thereon computer-executable instructions for performing the following

- detecting the receipt a subsequent indication that the client is again accessing the particular web site;
- regenerating the one or more cookies associated with the particular web site based on the accessed cookie requirement information; and
- causing the one or more regenerated cookies to be transmitted to the client.

1           21.     In a client that is capable of communicating with a server that provides, to  
2 the client, cookies associated with web sites and, the client further being capable of  
3 communicating with the web sites, a method of obtaining a customized web document  
4 from a web site using one or more cookies generated by the server, the method comprising  
5 the following:

6                 receiving a cookie list from the server, the cookie list including entries  
7 associated with the web sites, wherein the server is capable of providing cookies  
8 associated with the web site to the client;

9                 initiating a connection to a particular web site;

10                determining that the particular web site is associated with an entry in the  
11 cookie list;

12                requesting, from the server, one or more cookies associated with the  
13 particular web site; and

14                receiving, from the server, the one or more cookies associated with the  
15 particular web site, the one or more received cookies having been generated by the  
16 server based on cookie requirement information specifying the requirements of  
17 cookies for the particular web site.

18  
19           22.     A method as recited in Claim 21, further comprising the following;

20                transmitting the one or more received cookies to the particular web site; and

21                receiving from the particular web site a customized web document that has  
22 been generated at the web site using the one or more received cookie.

23  
24           23.     A method as recited in Claim 21, wherein the acts of requesting the one or

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1 more cookies and receiving the one or more cookies are conducted without the client  
2 transmitting to the server any client information that is to be included in the one or more  
3 cookies.

4  
5 24. A method as recited in Claim 21, wherein accessing the particular web site  
6 is being conducted for the first time, such that receiving the one or more cookies is  
7 conducted as the client accesses the particular web site for the first time.

1           25. In a client that is capable of communicating with a server that provides, to  
2 the client, cookies associated with web sites and, the client further being capable of  
3 communicating with the web sites, a method of obtaining a customized web document  
4 from a web site using one or more cookies generated by the server, the method comprising  
5 the following:

6                     assisting the server so that if the client is to access a particular web site, the  
7 server transmits to the client one or more cookies associated with the web site; and  
8                     receiving, from the server, the one or more cookies associated with the  
9 particular web site, the one or more received cookies having been generated by the  
10 server based on cookie requirement information specifying the requirements of  
11 cookies for the particular web site.

12  
13           26. A method as recited in Claim 25, wherein accessing the particular web site  
14 is being conducted for the first time, such that receiving the one or more cookies is  
15 conducted as the client accesses the particular web site for the first time.

16  
17           27. A method as recited in Claim 25, further comprising the following:  
18                     transmitting the one or more received cookies to the particular web site; and  
19                     receiving from the particular web site a customized web document that has  
20 been generated at the web site using the one or more received cookies.

21  
22           28. A method as recited in Claim 25, wherein assisting the server further  
23 comprises the following:

24                     receiving a cookie list from the server, the cookie list including entries

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1 associated with the web sites, wherein the server is capable of providing cookies  
2 associated with the web site to the client;

3 initiating a connection to a particular web site, determining that the  
4 particular web site is associated with an entry in the cookie list; and

5 requesting, from the server, one or more cookies associated with the  
6 particular web site.

7  
8 29. A method as recited in Claim 28, wherein requesting the one or more  
9 cookies and receiving the one or more cookies are conducted without the client  
10 transmitting to the server any client information that is to be included in the one or more  
11 cookies.

1           30.    A computer program product for use in a client that is configured to  
2 communicate with a server that is to provide, to the client, cookies associated with web  
3 sites and, the client further being capable of communicating with the web sites, the  
4 computer program product for implementing a method of obtaining a customized web  
5 document from a web site using one or more cookies generated by the server, the computer  
6 program product comprising a computer-readable medium having stored thereon  
7 computer-executable instructions for implementing the following:

8                   detecting the receipt of a cookie list from the server, the cookie list  
9 including entries associated with the web sites, wherein the server is capable of  
10 providing cookies associated with the web site to the client;

11                   initiating a connection to a particular web site;

12                   determining that the particular web site is associated with an entry in the  
13 cookie list;

14                   requesting, from the server, one or more cookies associated with the  
15 particular web site; and

16                   detecting the receipt, from the server, of the one or more cookies associated  
17 with the particular web site, the one or more received cookies having been  
18 generated by the server based on cookie requirement information specifying the  
19 requirements of cookies for the particular web site.

20  
21           31.    A computer program product as recited in Claim 30, wherein the computer-  
22 readable medium comprises a physical storage medium.

23  
24           32.    A computer program product as recited in Claim 30, further comprising the

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1 following;

2 causing the one or more received cookies to be transmitted to the particular  
3 web site; and

4 detecting the receipt, from the particular web site, of a customized web  
5 document that has been generated at the web site using the one or more received  
6 cookies.